

**United States Department of the Interior
Bureau of Land Management**

**PALEN SOLAR ELECTRIC
GENERATING SYSTEM**

**DRAFT SUPPLEMENTAL
ENVIRONMENTAL IMPACT STATEMENT**



Volume 2 of 2

**July 2013
CACA #048810**

Publication Index #: BLM/CA/ES-2013/023+1793



APPENDICES

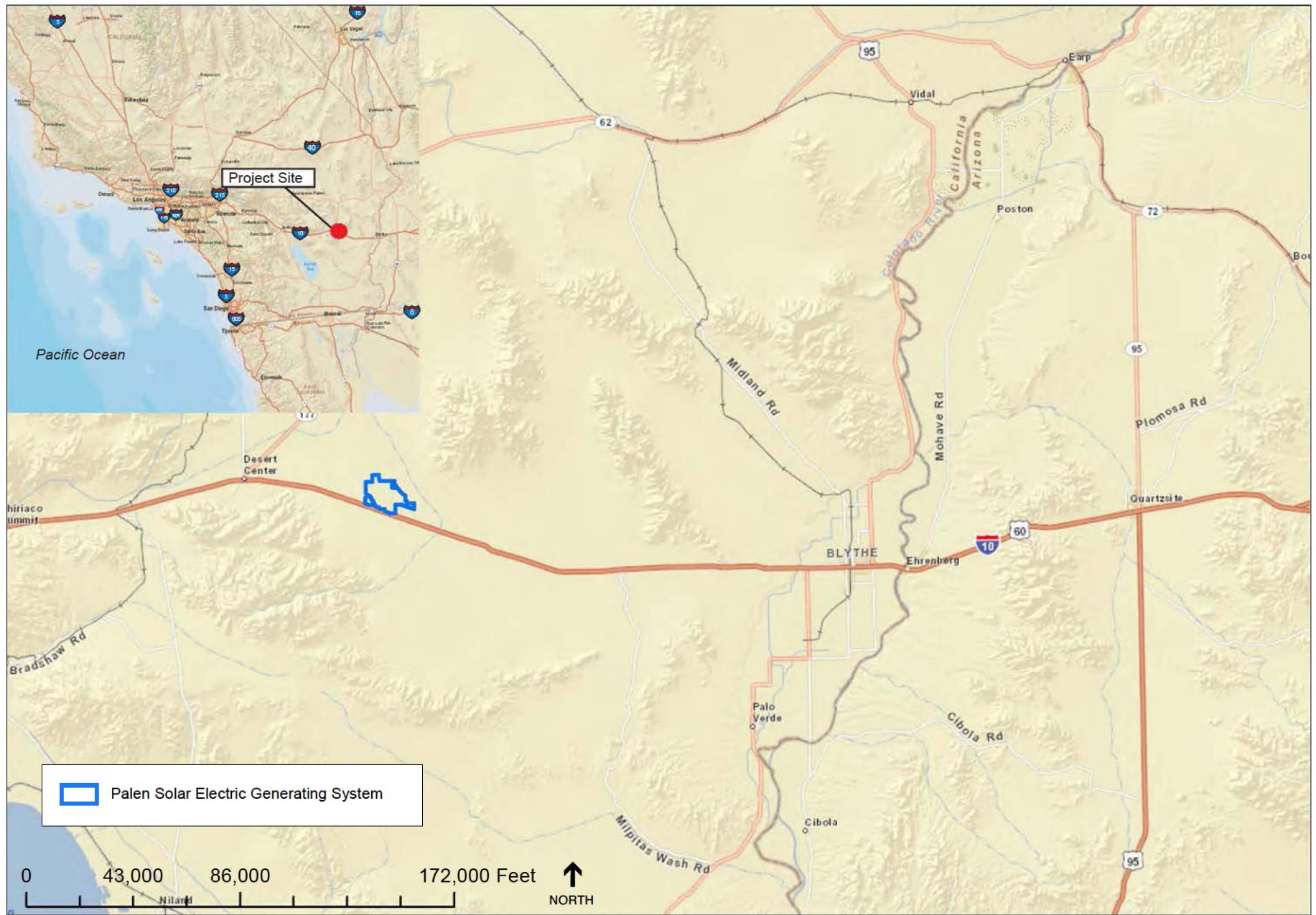
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APPENDIX A

Maps and Figures

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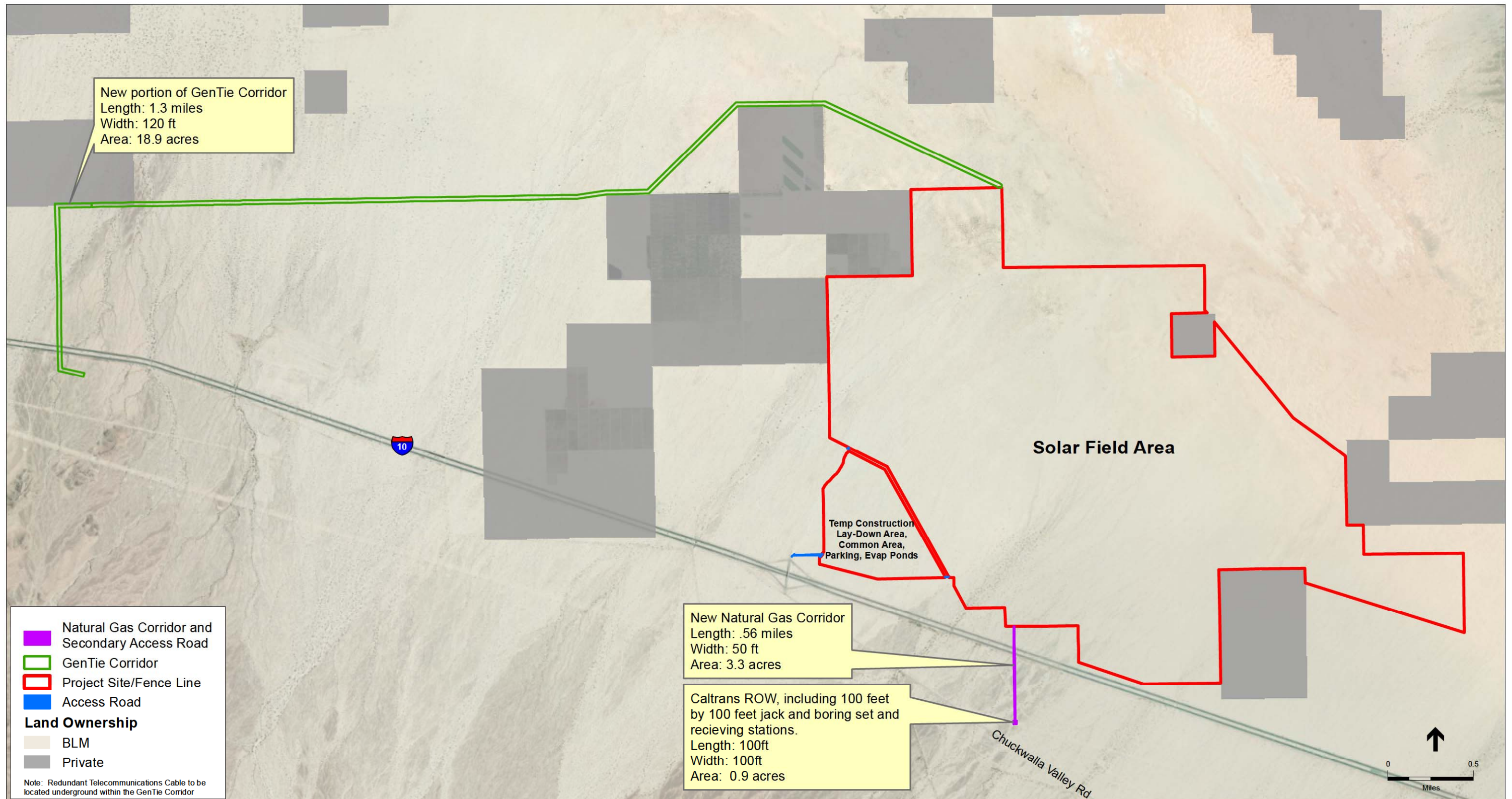


SOURCE: Palen Solar III LLC, 2013

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Figure 2-1
Project Location

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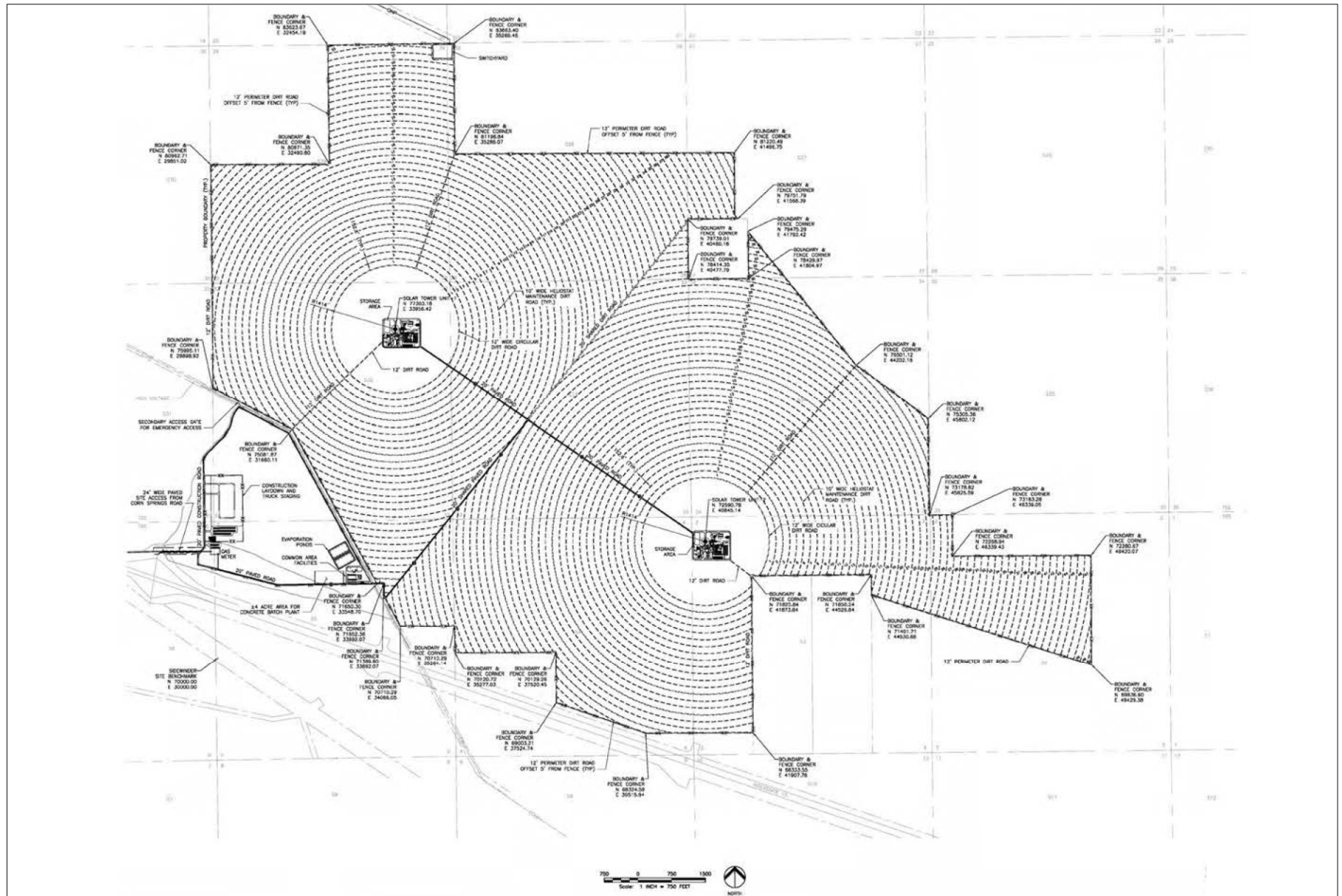


SOURCE: BrightSource Energy, 2013

PSEGS Draft SEIS . 130111

Figure 2-2
Project Area

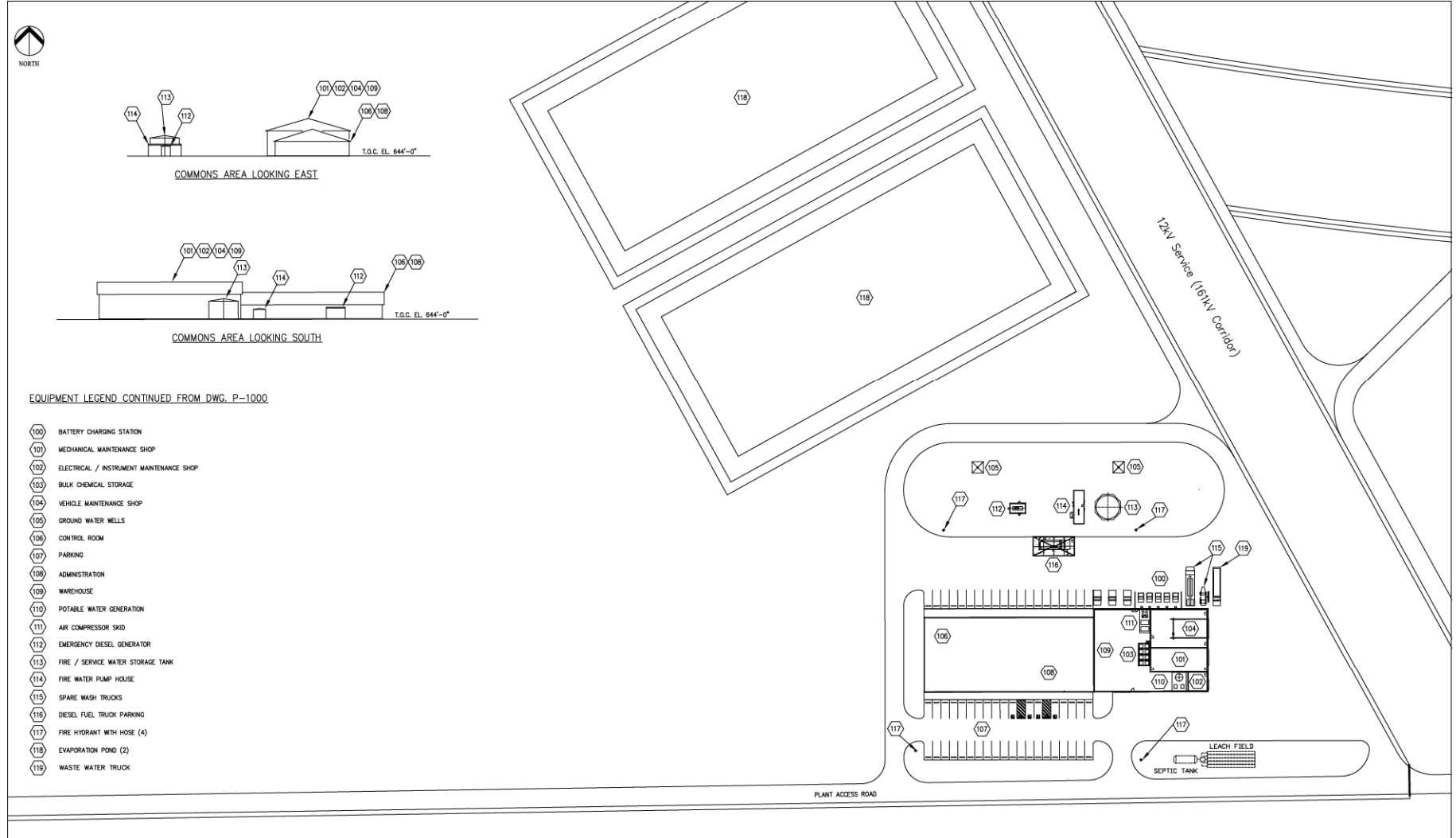
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SOURCE: CH2MHill, 2013

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Figure 2-3
Preliminary Site Plan





SOURCE: CEC RSA Part II, 2010

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Figure 3.19-1
Characteristic Landscape of the Project Site



Dry Lake Bed



Ironwood Tree



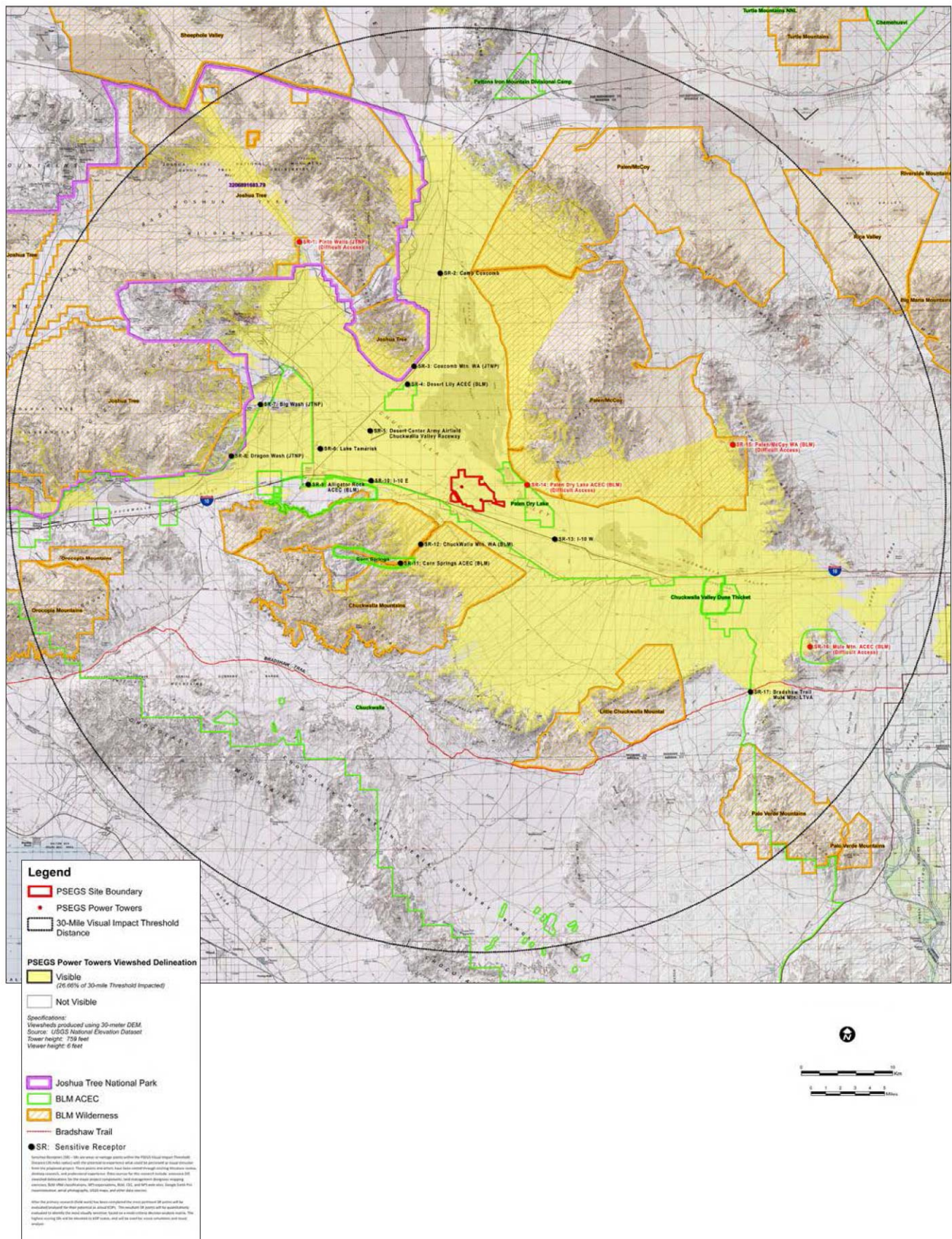
Creosote Scrub



Chuckwalla Valley Road, looking north



The Flats, Looking East

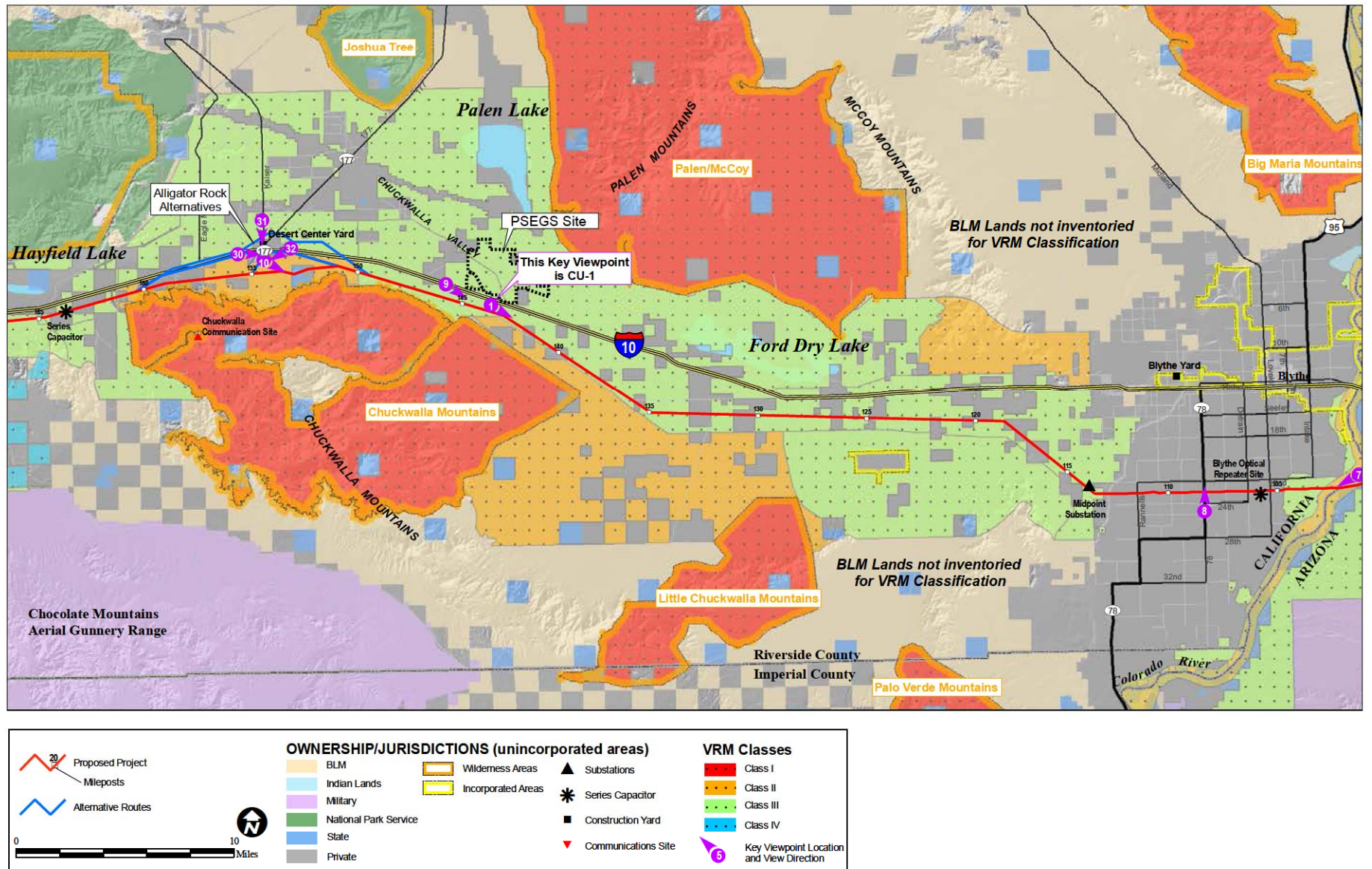


SOURCE: 3DScape

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Figure 3.19-3

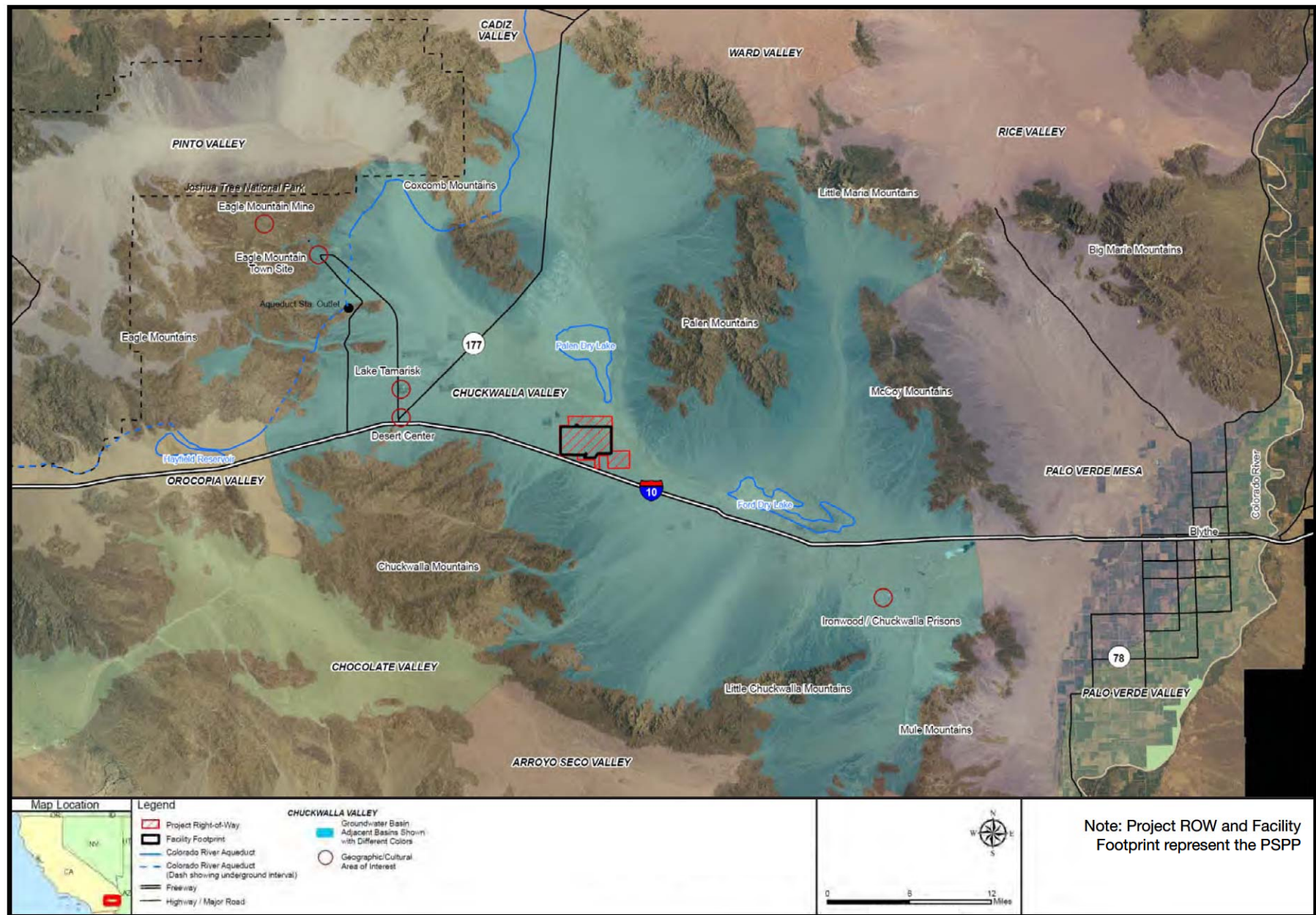
Project Study Area and Viewshed



SOURCE: Aspen Environmental Group

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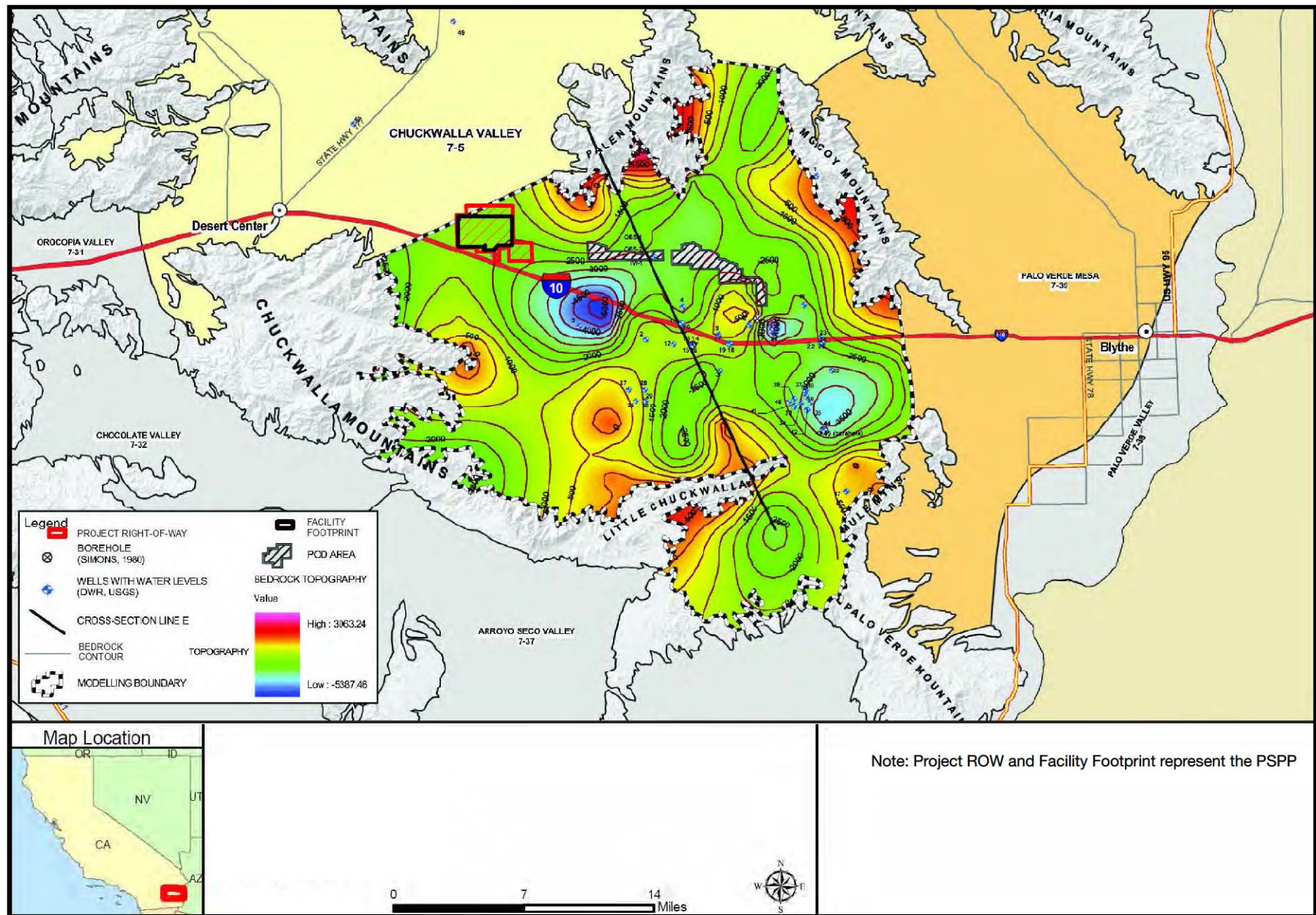
Figure 3.19-4
VRM Classes



SOURCE: CEC/BLM, 2010

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Figure 3.20-1
Chuckwalla Valley Regional Groundwater Basins

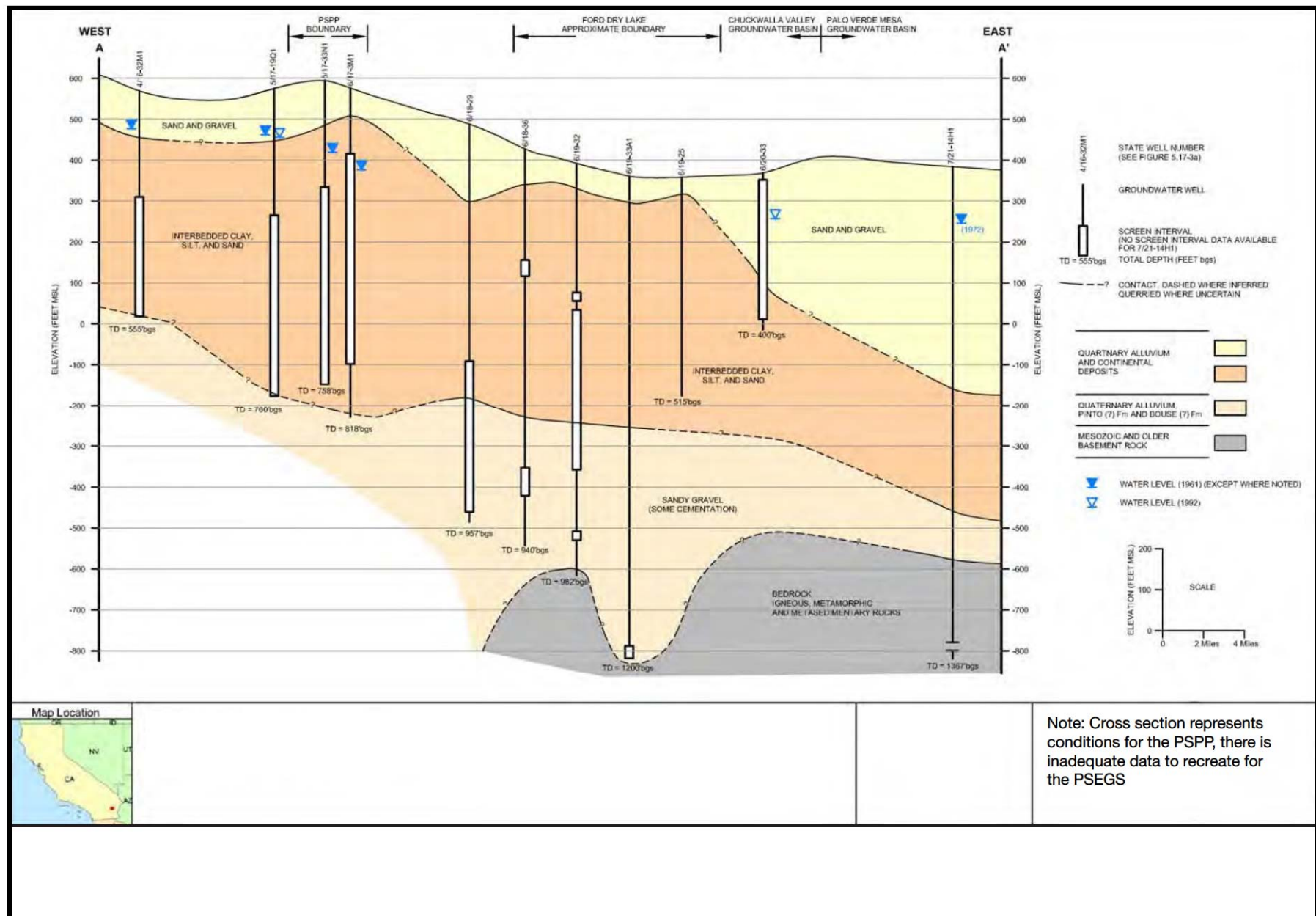


SOURCE: CEC/BLM, 2010

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Figure 3.20-2

Chuckwalla Valley Groundwater Basin Bedrock Topography

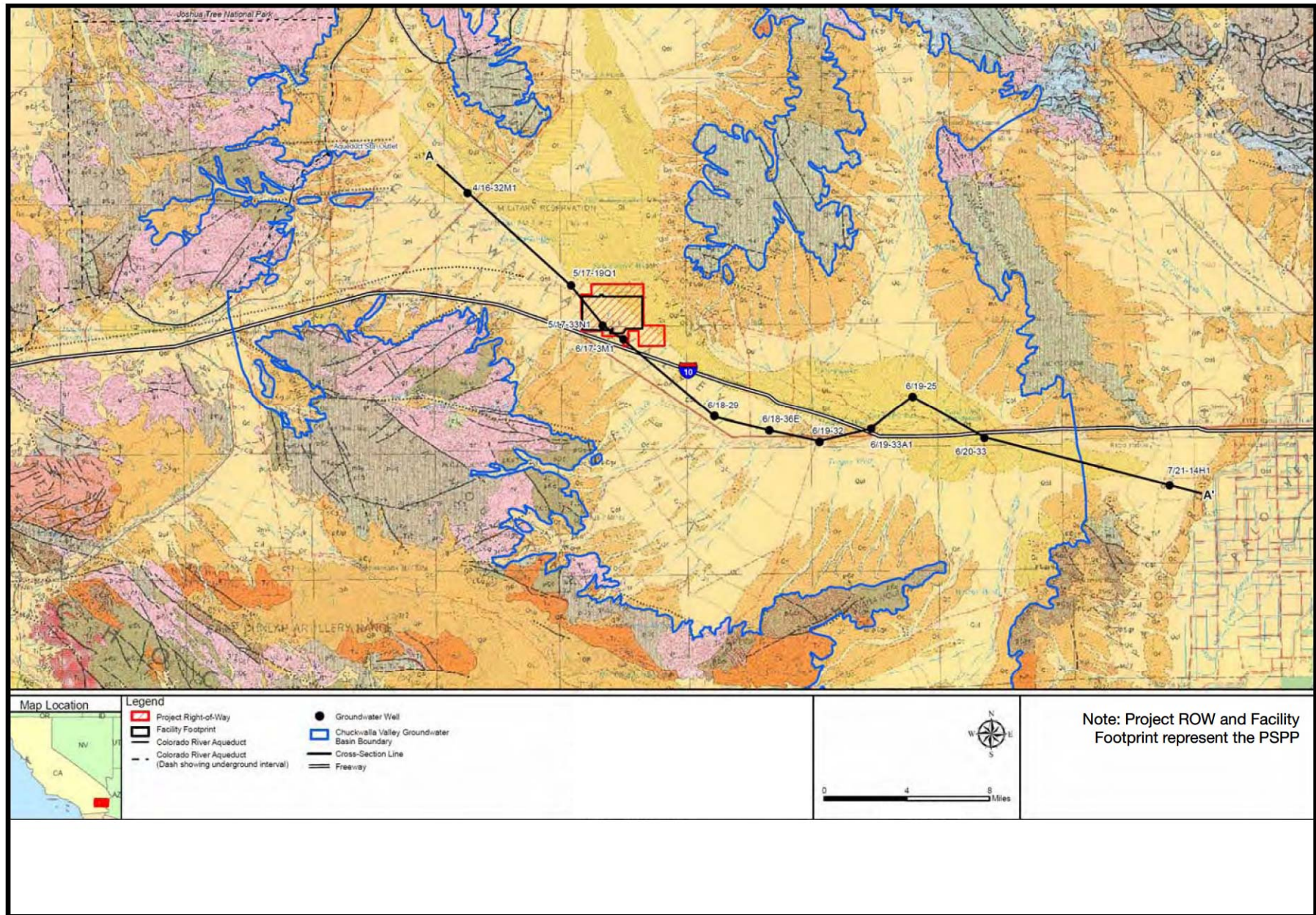


SOURCE: CEC/BLM, 2010

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Figure 3.20-3

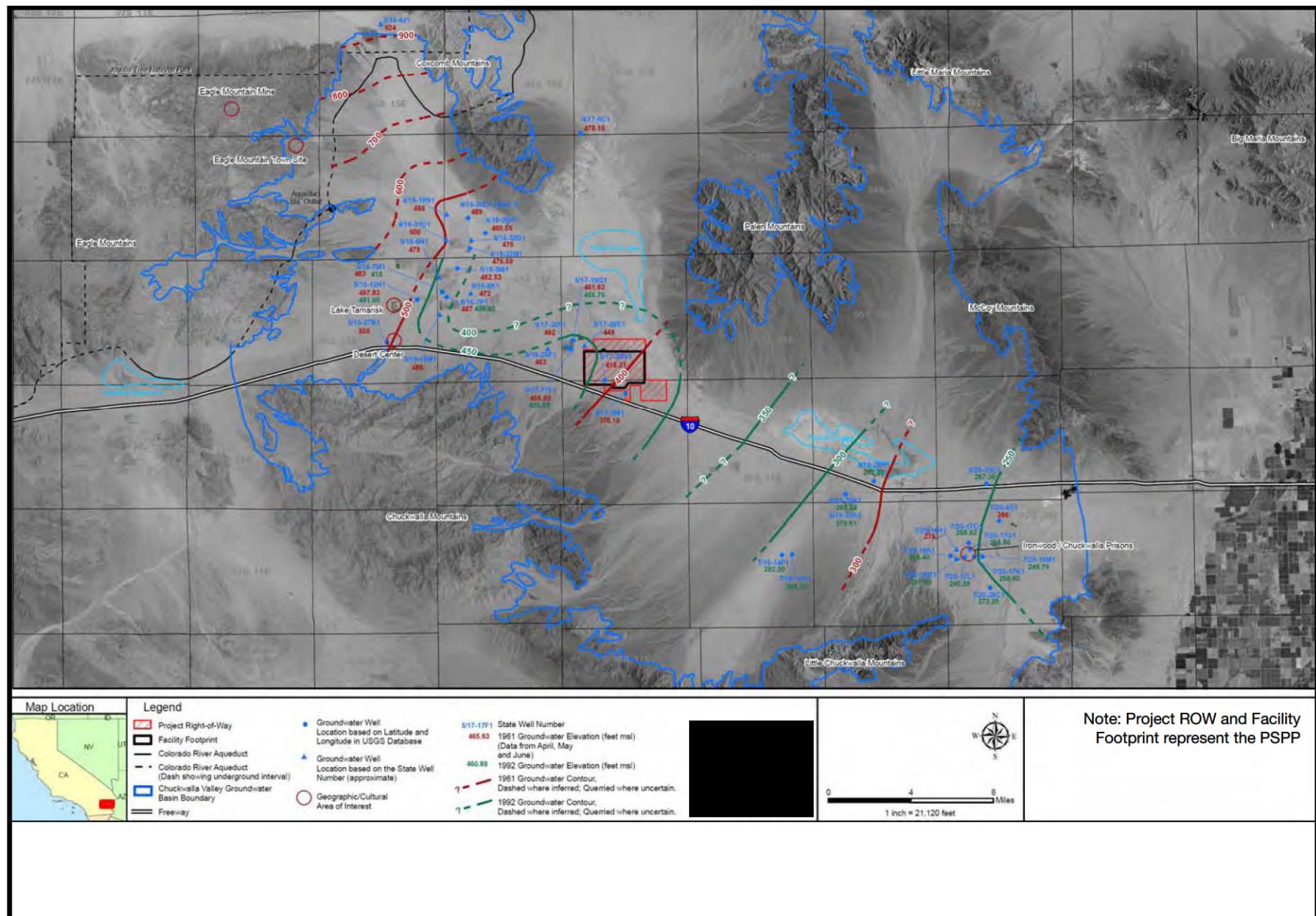
Chuckwalla Valley Groundwater Basin Cross Section A-A'



SOURCE: CEC/BLM, 2010

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Figure 3.20-4
Regional Geology Map

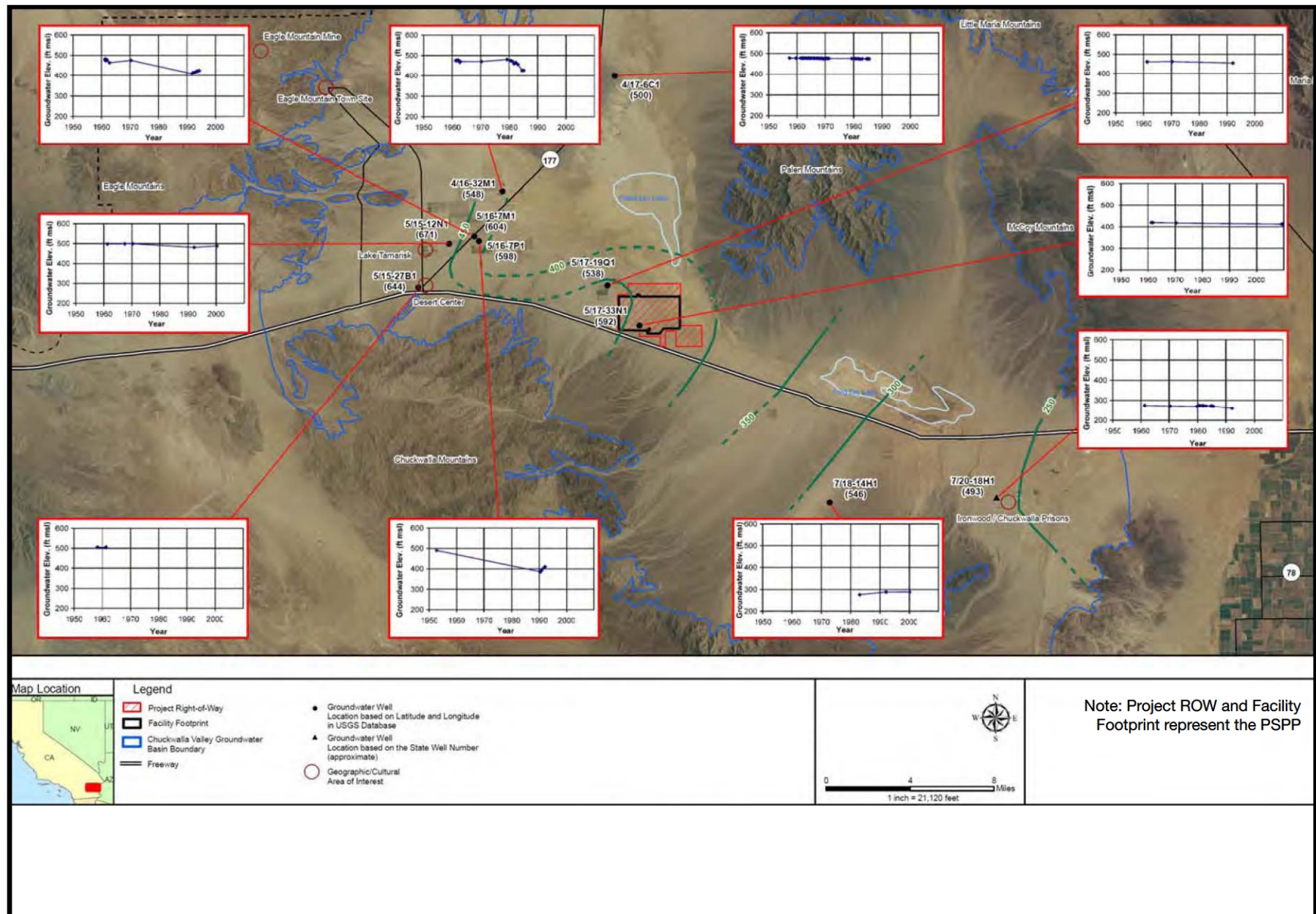


SOURCE: CEC/BLM, 2010

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Figure 3.20-5

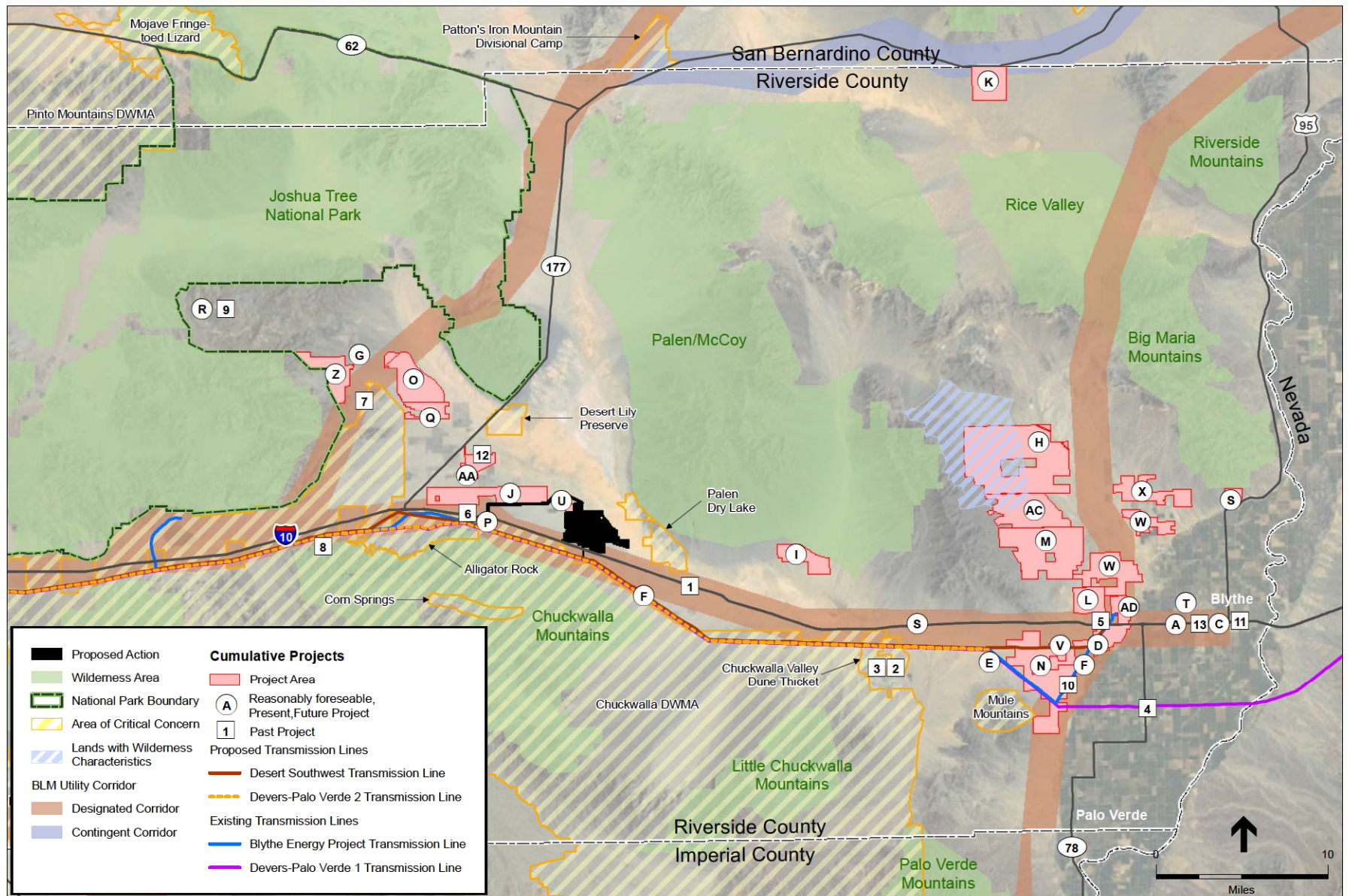
Chuckwalla Valley Groundwater Basin
Pre Project Conditions



SOURCE: CEC/BLM, 2010

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Figure 3.20-6
Basin Wide Groundwater Hydrographs

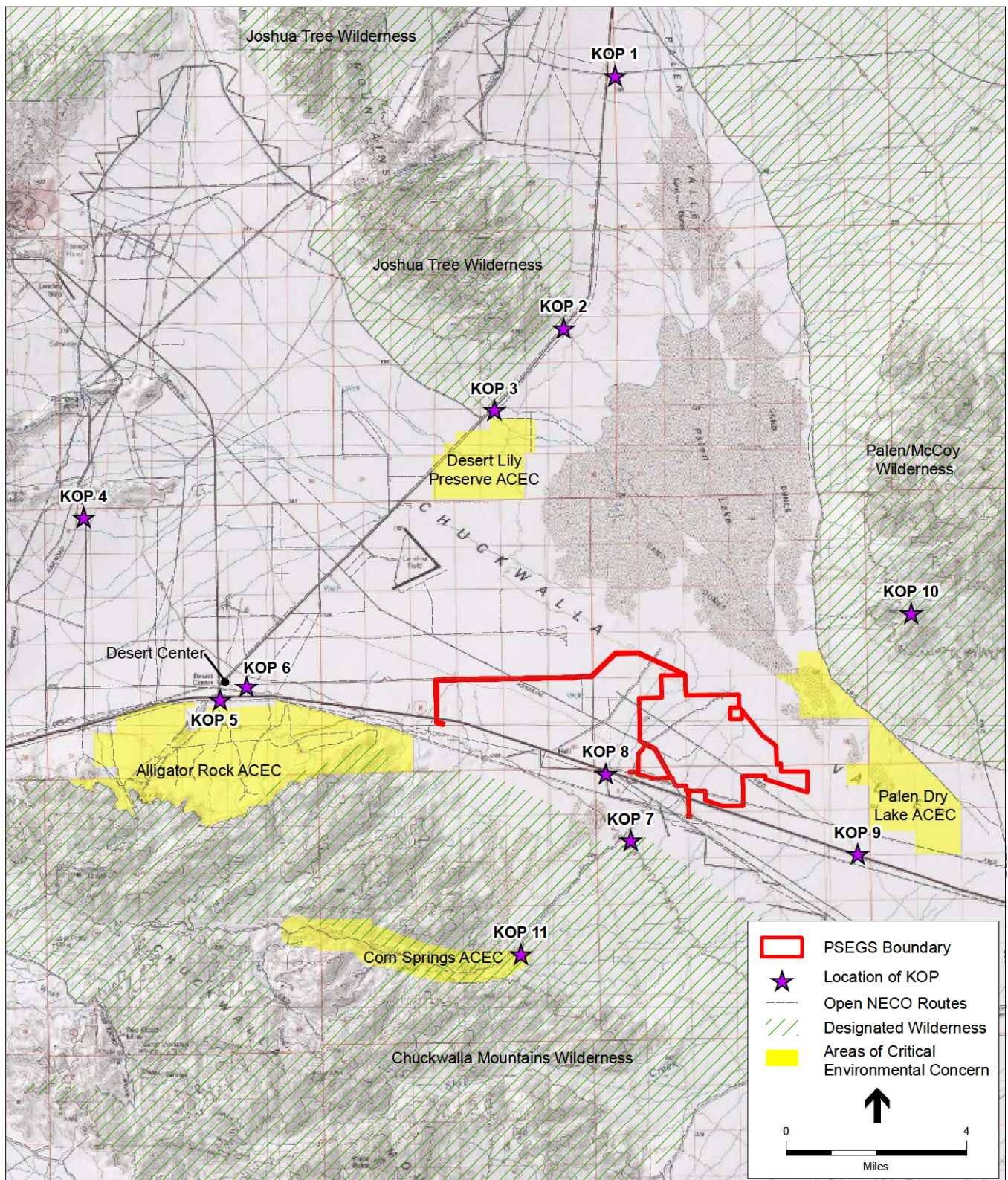


SOURCE: CEC RSA, 2010; BLM, 2013; CEC, 2013; Kern County Planning and Community Development, 2013

Note: Refer to Tables 4.1-6 and 4.1-7 for the lists of projects in the cumulative scenario

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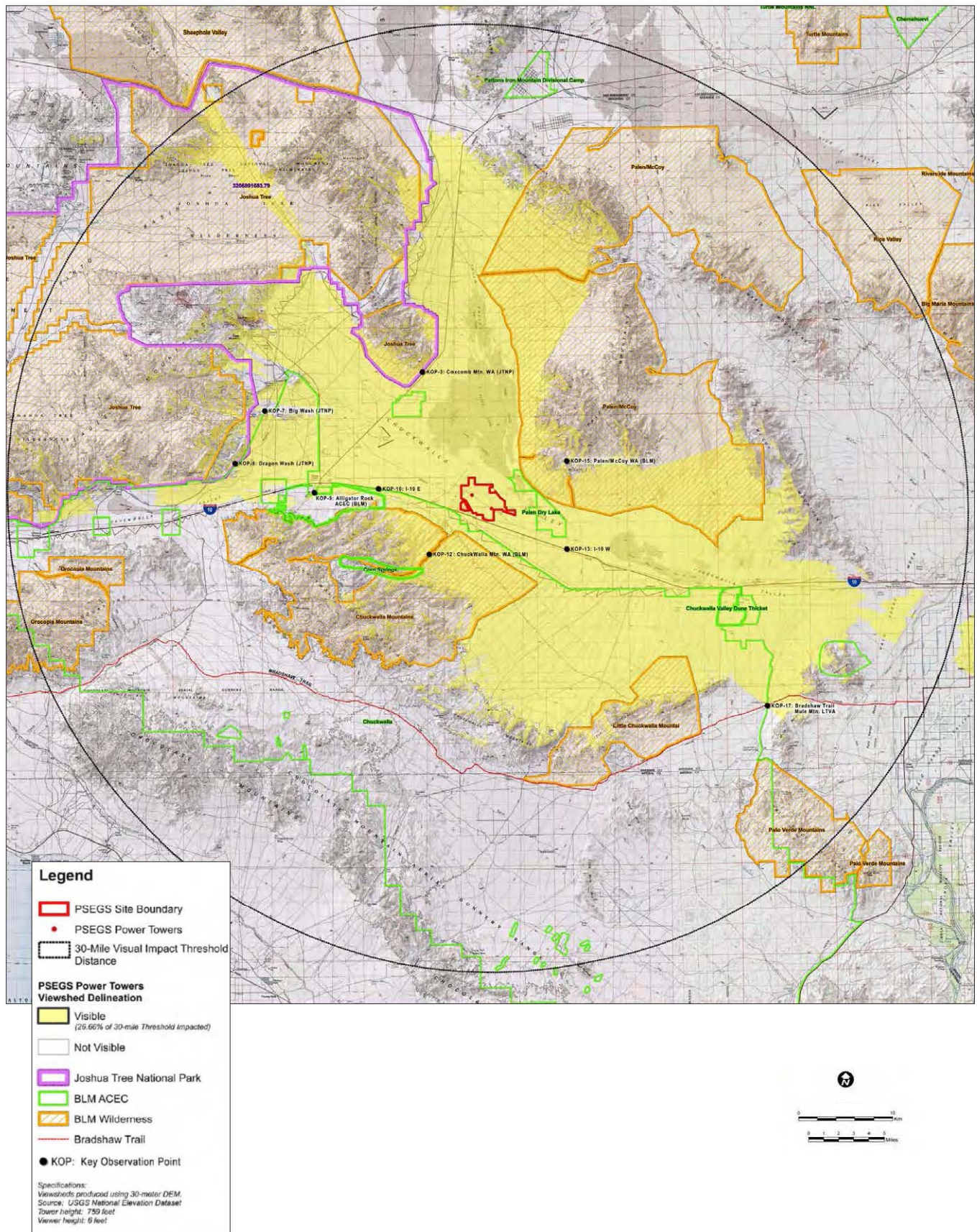
Figure 4.1-1
Cumulative Projects Scenario



SOURCE: AFC, 2009

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Figure 4.18-1
Location of Key Observation Points (KOPs)



SOURCE: 3DScape

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Figure 4.18-1a

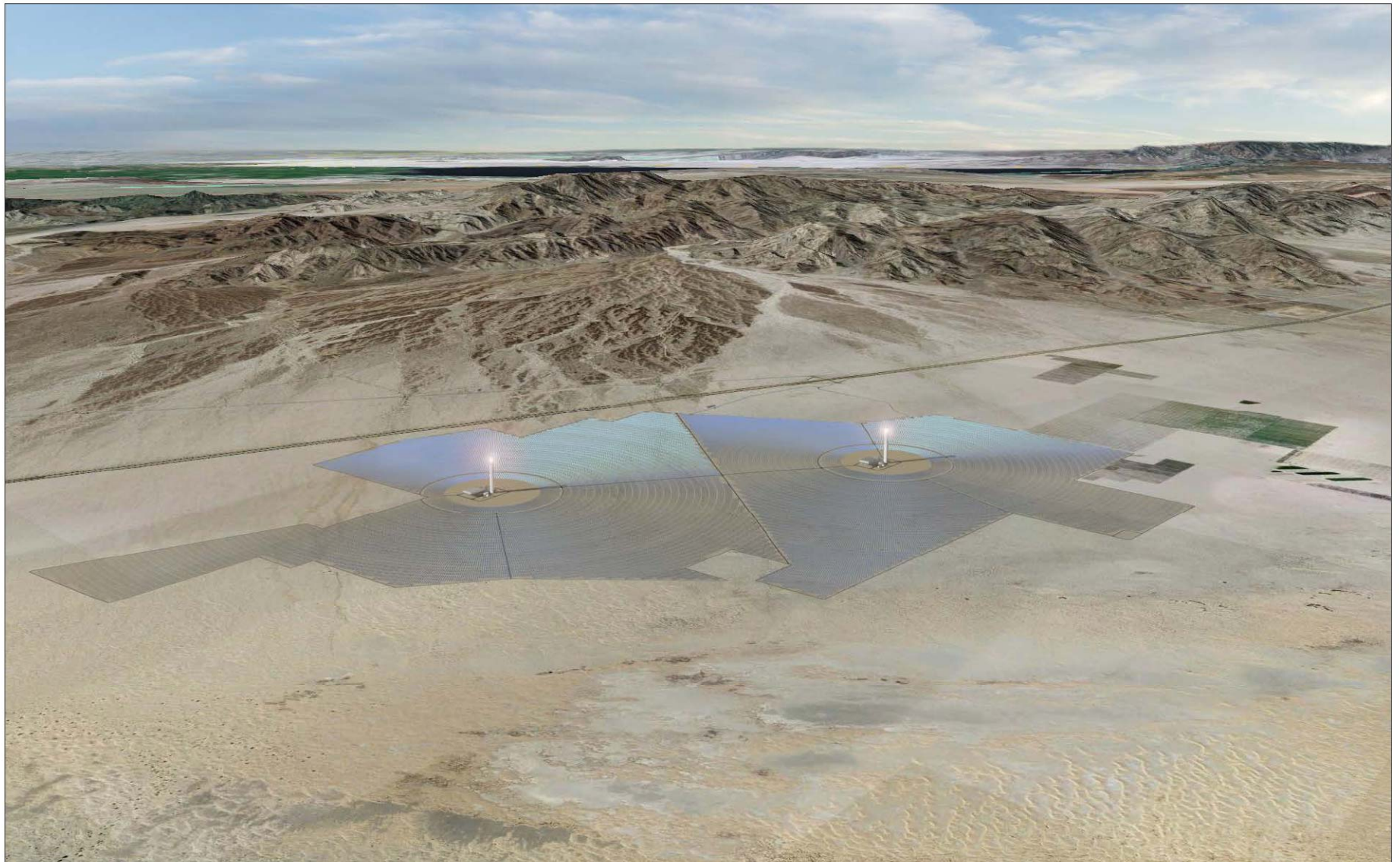
Location of Additional Key Observation Points



Unidentified Power Tower Facility



Torre Sol Gemmasolar 20-Min Power Tower Facility near Seville, Spain (Credit: Robert Sullivan, Argonne Laboratory)



SOURCE: Palen Solar Holdings, LLC

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Figure 4.18-3

Oblique View Simulation of the Solar Electric Generating System



SOURCE: 3DScape, 2013

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Figure 4.18-3a

View From Interstate 10 Westbound, Looking Northwest Towards the PSEGS Site
Approximately 6 Miles East of Project



SOURCE: BLM (Credit: Robert Sullivan, Argonne National Laboratory)

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Figure 4.18-4

Power Tower Heliostats on Trailer Enroute to Installation
Ivanpah Valley, CA



SOURCE: BLM (Credit: Robert Sullivan, Argonne National Laboratory)

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Figure 4.18-5

Staging Area at Ivanpah Solar Energy System Power Tower Facility
Ivanpah Valley, CA



SOURCE: BLM (Credit: Robert Sullivan, Argonne National Laboratory)

PSEGS Draft SEIS . 130111

Figure 4.18-6

Trimmed Vegetation Beneath Power Tower Heliostats
Ivanpah Valley, CA



Existing Condition



Simulated Condition

SOURCE: URS, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-7

View from KOP-1, Highway 177 and Palen Pass Road,
Looking South Toward the PSEGS Site



Existing Condition



Simulated Condition



Existing Condition



Simulated Condition



Existing Condition



Simulated Condition

SOURCE: URS, 2013

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Figure 4.18-10

View from KOP-4, Eagle Mountain Road,
Looking East toward the PSEGS Site



Existing Condition



Simulated Condition

SOURCE: URS, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-11

View from KOP-5, I-10 Interchange at Desert Center,
Looking East toward the PSEGS Site



Existing Condition



Simulated Condition

SOURCE: URS, 2013

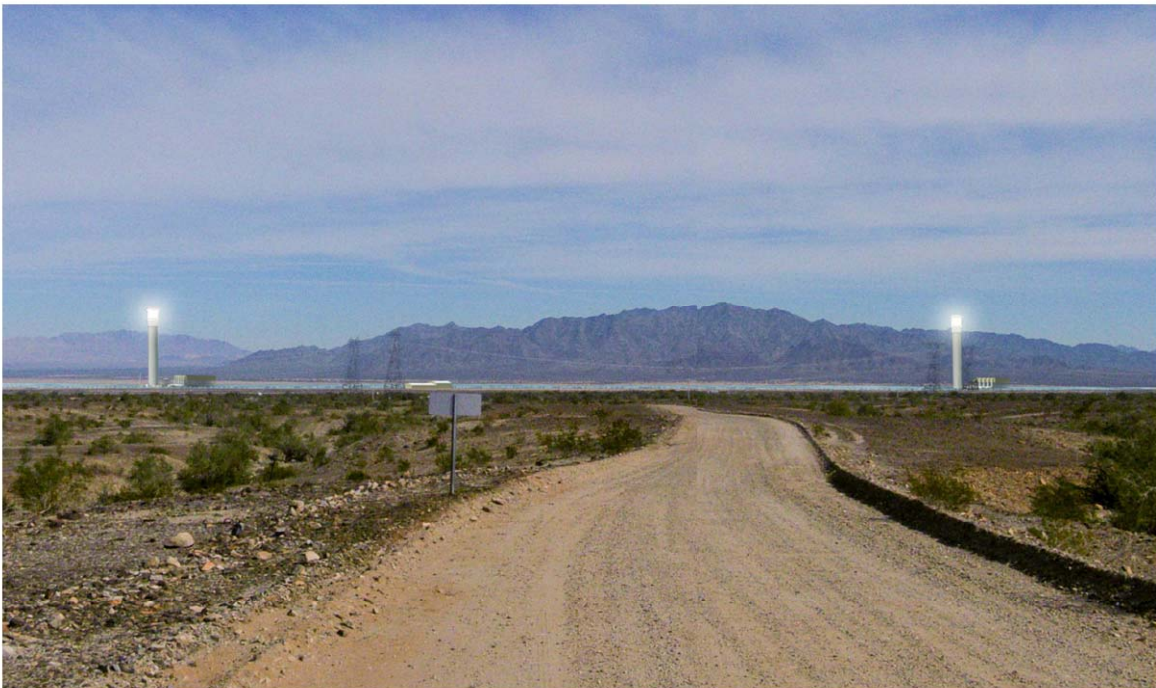
PSEGS Draft SEIS . 130111

Figure 4.18-12

View from KOP-6, Residential community entrance/exit in Desert Center,
Looking East toward the PSEGS Site



Existing Condition



Simulated Condition



Existing Condition



Simulated Condition

SOURCE: URS, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-14

View from KOP-8, I-10 eastbound near the southwestern corner of the Project, Looking Northeast toward the PSEGS Site



Existing Condition



Simulated Condition



Existing Condition



Simulated Condition

SOURCE: 3DScape, 2013

PSEGS Draft SEIS . 13011

Figure 4.18-16

View from KOP-3A Coxcomb Wilderness Area (Joshua Tree National Park),
looking south toward the PSEGS site (9.9 miles)



Existing Condition



Simulated Condition

SOURCE: 3DScape, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-17

View from KOP-7A, Big Wash, Joshua Tree National Park, looking southeast toward the PSEGS site (15.46 miles)



Existing Condition



Simulated Condition

SOURCE: 3DScape, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-18

View from KOP-8A, Dragon Wash, Joshua Tree National Park,
looking southeast towards the PSEGS site (15.98 miles)



Existing Condition



Simulated Condition

SOURCE: 3DScape, 2013

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Figure 4.18-19

View from KOP-9A Alligator Rock, BLM Area of
Critical Environmental Concern (ACEC),
looking east towards the PSEGS site (11.12 miles)



Existing Condition



Simulated Condition

SOURCE: 3DScape, 2013

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Figure 4.18-20

View from KOP-10A, Interstate 10 eastbound,
looking east towards the PSEGS site (6.87 miles)



Existing Condition



Simulated Condition

SOURCE: 3DScape, 2013

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Figure 4.18-21

View from KOP 12A, BLM Chuckwalla-Mountain Wilderness Area, looking northeast towards the PSEGS site (4.63 miles)



Existing Condition



Simulated Condition

SOURCE: 3DScape, 2013

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Figure 4.18-22

View from KOP-13A, Interstate 10 westbound,
looking northwest toward the PSEGS site (6.39 miles)



Existing Condition



Simulated Condition

SOURCE: 3DScape, 2013

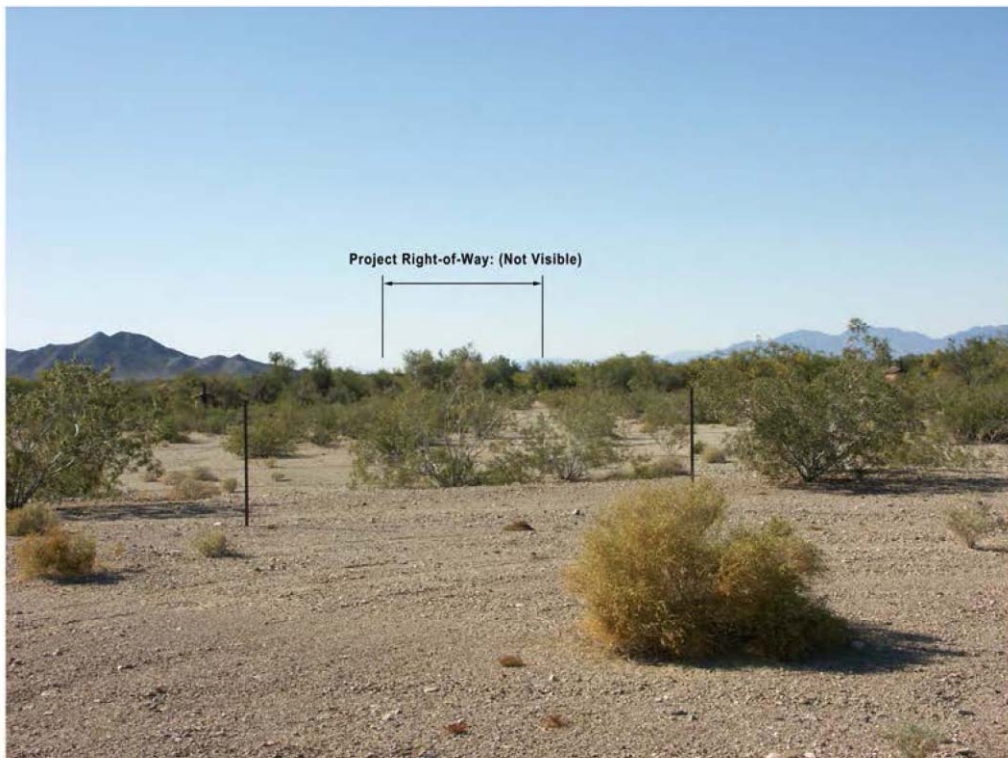
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Figure 4.18-23

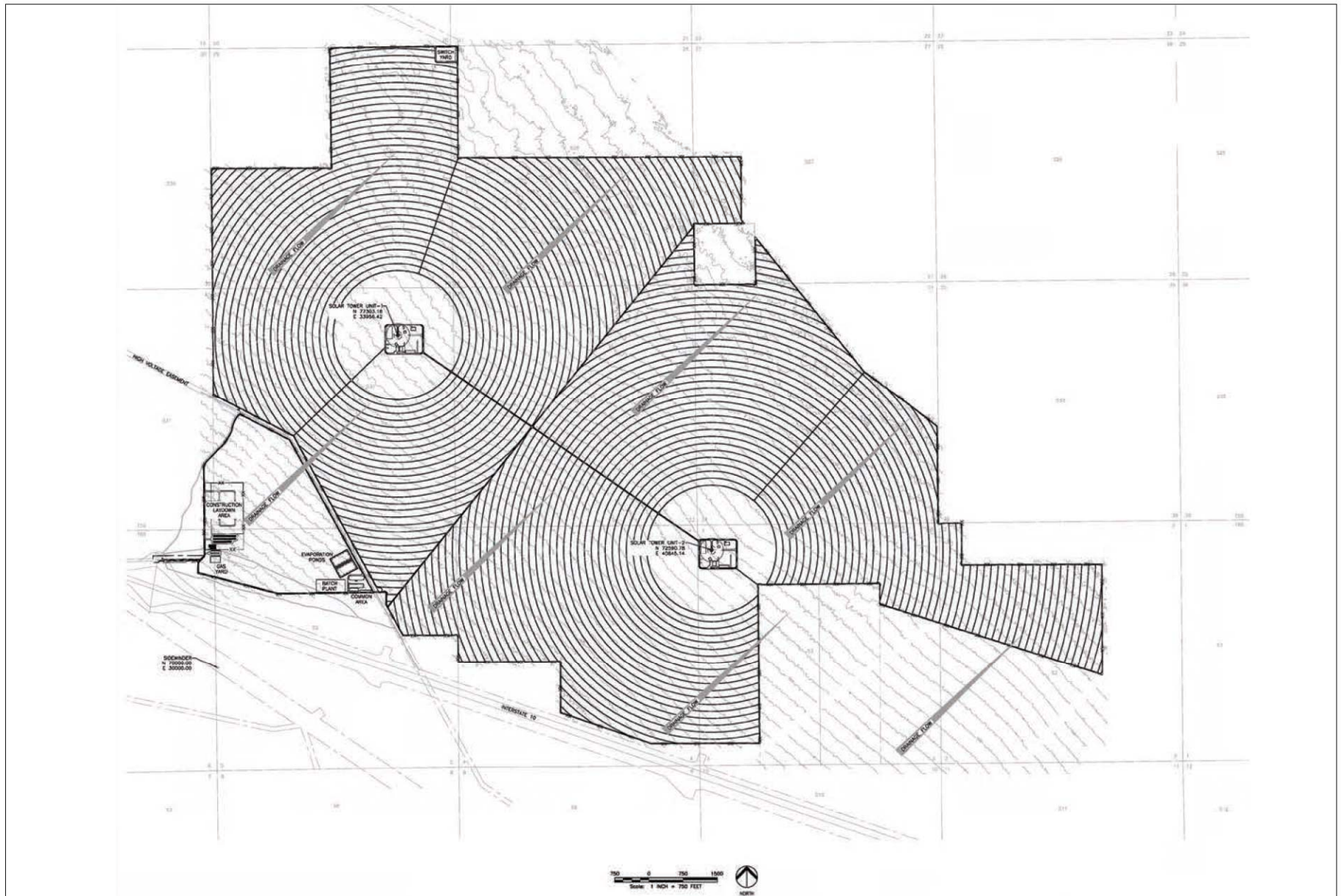
View from KOP-15A BLM Palen / McCoy Wilderness Area,
looking southwest toward the PSEGS site (6.14 miles)



Existing Condition



Simulated Condition



SOURCE: CH2MHill, 2013

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Figure 4.19-1
 Overall Grading and Drainage Plan